CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/PP/CEMENT/2014-15

Date: 09.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. P. Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	460 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	27.50 %	-

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Job No.: CTCE/BBMP/W.No.14/PP/SAND/2014-15 : 09.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

Date of Testing : 09.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	115	5.75	5.75	94.3	90-100
2.36	208	10.40	16.15	83.9	75-100
1.18	524	26.20	42.35	57.7	55-90
600 Micron	426	21.30	63.65	36.4	35-59
300 Micron	475	23.75	87.40	12.6	8-30
150 Micron	203	10.15	97.55	2.4	0-10

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.14/PP/AGG/2014-15 : 09.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

Date of Testing : 09.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1025	3.94	3.94	96.06	95-100
20	15870	61.04	64.98	35.02	30-70
10	6130	23.58	88.56	11.44	10-35
4.75	2585	9.94	98.50	1.50	0-5

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Job No.: CTCE/BBMP/W.No.14/PP/CC Blocks/2014-15 10.07.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of the Work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

Size of Block : 400 x 200 x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	08.07.2014	10.07.2014	265.3	3.32	3.2
2	08.07.2014	10.07.2014	266.7	3.33	
3	08.07.2014	10.07.2014	262.8	3.29	

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Job No.: CTCE/BBMP/W.No.14/PP/CUBE/2014-15 27.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. P. Prakash,** Contractor, Bangalore.
Name of the work	: Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.
Reference	: BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2014	27.08.2014	8.175	486.5	21.62
2	30.07.2014	27.08.2014	8.263	493.7	21.94
3	30.07.2014	27.08.2014	8.394	508.4	22.60

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Job No.: CTCE/BBMP/W.No.14/PP/Pre slab/2014-15

05.08.2014

PRE CAST SLAB(CORE) TEST REPORT

Name of Client	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Mr. P. Prakash,** Contractor, Bangalore.
Name of work	:	Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.
Referece	:	BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014
No.of Sample Tested	:	03
Date of Testing	:	05.08.2014
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.382	2526.64	1.54	0.955	25.30	13.04	14.08	13.45	16.81
2	50.00	79.00	0.399	2572.27	1.58	0.960	25.95	13.22	14.27	13.70	17.13
3	50.00	80.00	0.405	2578.31	1.60	0.960	26.70	13.60	14.69	14.10	17.62

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